

1000 numbers with many duplicates collected by S. F. Kajewski in the New Hebrides and Santa Cruz Islands, more than 3500 numbers with duplicates collected by W. P. Fang in the Chinese province of Szechuan, nearly 600 numbers with duplicates collected by C. T. White and S. F. Kajewski in North Queensland, about 250 numbers with duplicates collected by J. Mattfeld in Bulgaria. As gifts were received about 360 numbers with duplicates collected by W. Bingham in Central America and the West Indies, and about the same number collected by F. M. Salvoza in Panama and Cuba, about 120 numbers with duplicates collected by Dr. J. Becquaert in Yucatan, and about 540 specimens of cultivated plants from Vilmorin-Andrieux in Paris. By exchange were received from the Sun Yatsen University about 1700 Kwangtung plants, from the Edinburgh Botanic Garden about 500 Yunnan plants collected by G. Forrest, from the Metropolitan Museum at Nanking about 360 plants from Kwangsi collected by R. C. Ching, from the Riks Museum at Stockholm about 330 plants of Tropical America, from the Berlin Botanic Garden about 200 Kamerun plants, from the Yale Forestry School about 350 Liberian plants collected by G. P. Cooper; from the New York Botanic Garden about 1250 plants from E. Asia and the Philippines. Through purchase were acquired about 300 specimens from Argentina collected by Venturi and about 300 specimens from Mexico collected by C. A. Purpus.

Besides the constant use of the herbarium by the staff in the determinations of plants sent in for identification and in the determination of large collections, chiefly from North America and Eastern Asia, the facilities of the herbarium have been used by students of other departments of the University and from abroad as by Mr. Chien P'ei of Chengtu, China, who is working on a revision of the Chinese Verbenaceae and by Mr. F. P. Metcalf of the Canton Christian College who is preparing a flora of Fukien. For study outside of the Arboretum 803 specimens have been sent out on loan to 18 institutions and individuals in this country and Europe.

There have been distributed from the herbarium 17430 specimens to 41 institutions in the United States and Canada and in Europe, Australia and Africa; also 350 wood specimens to two institutions.

To the fruit collection 137 specimens have been added which brings the number of fruit specimens up to 7037. The fluid in which fleshy fruits are preserved has been changed from a formalin solution to an alcohol-formalin solution.

The arrangement and labeling of the wood collection has been finished and the general wood collection now contains 2186 specimens arranged in systematic order, 686 having been added during the year.

Botanical explorations partly or wholly financed by this institution have been carried on in different parts of the world. Dr. H. Humbert who has collected during the second half of 1928 in Madagascar, has spent

the greater part of 1929 in East Africa where he visited chiefly the region of the Great Lakes, Tanganyika, Kivu and Lake Edward, ascended many high mountains, as Kanuzi (3250 m.), Karisimbi (4506 m.), Muhavura and Mikenno (over 4000 m.), Niragongo and Niamlagira (over 3000 m.) and Mt. Runenzori to the foot of the glaciers (4500 m.); he also visited the tropical forests of the upper Congo basin and the Kenya Colony. He returned in the autumn of 1929 to Algiers after having collected more than 5000 numbers with duplicates and he is now working on his collections of which we have received recently the first shipment. Mr. S. F. Kajewski spent the winter 1929-30 collecting in North Queensland and after regaining his health impaired by attacks of fever while in the New Hebrides the preceding summer set out at the end of February for the Solomon Islands and went first to Bougainville Island, the largest island of the group. Professor C. Y. Chiao of the University of Nanking has started at the end of May 1930 for Shantung on a collecting tour for the Arnold Arboretum and Nanking University; he will visit chiefly the central and western part of the province which is yet botanically little known. Professor J. Bornmüller has collected from the end of April to the end of July 1929 in Asia Minor chiefly Anatolia and Paphlagonia. Assistant Professor J. G. Jack has spent again several months, July and August 1929 and January to April 1930 in Cuba continuing the botanical exploration of the region near the Harvard Tropical Garden at Soledad, Cienfuegos. Mr. E. J. Palmer made from the middle of August to the middle of September a collecting trip to southeastern Canada returning through New York and Pennsylvania; he paid particular attention to the species of *Crataegus* in view of the revision of the American species of the genus in which he is now engaged.—A. R.

The Library.—During the year the Library has added 760 volumes, 252 pamphlets and 1280 photographs, giving a total of 39,195 bound volumes, 9,466 pamphlets and 16,124 photographs. The number of photographs as given covers only the cards upon which they are mounted, sometimes as many as 6 small pictures being placed on one mount, bringing the actual number to nearly 17,000; besides these, 100 photographs taken by Mr. E. J. Palmer in the middle and south western states, 1924-1929, and 144 taken by Mr. Frank N. Meyer in China from 1905 to 1916 have been mounted in albums. In addition to the bound volumes there are over 200 works which were issued in parts, a large number of which are still publishing but many have been discontinued.

Four hundred periodicals are received currently and represent nearly every country, among these there are several new ones from China strengthening our contacts with that part of the world. One hundred and ninety-three come as exchanges for the *Journal of the Arnold Arboretum* and a few for the *Bulletin of Popular Information*.

About 1200 cards have been filed in the catalogue of books and more than 2400 slips for the supplement to the printed catalogue; 1000 cards

were filed in the catalogue of photographs and 4559 in the "Card-index of new genera, species and varieties published by the Gray Herbarium." To the manuscript "Index of illustrations and of new genera, species and varieties of ligneous plants since 1915," prepared at the Arboretum, 3754 cards have been added making the present total 86,851.

Five hundred books have been bound, including periodicals and 1000 titles, and 1280 photographs catalogued.

During the past few years all nursery catalogues offering woody plants for sale have been preserved and they form an interesting and valuable group, representing 152 foreign and 198 American firms with total number of 1750 catalogues and lists.

The rapid growth of the periodical section necessitated more room and 66 new shelves have been added to accommodate it.

Among the more important accessions of the year, some of which have been previously noted in the April issue of this Journal are:—

WALCOTT, Mary V. North American wild flowers. Vol. 5. 1925. Gift of Mrs. L. A. Frothingham.

CONDER, Josiah. Landscape gardening in Japan. 1893.

SCHWEIGGER, A. F. Flora Erlangensis. 1811.

SATOW, Sir E. M. The voyage of Captain John Saris to Japan, 1613. 1900.

DEERING, Charles. Catalogus stirpium, &c.; or, A catalogue of plants naturally growing and commonly cultivated in divers parts of England more especially about Nottingham. 1738.

CHAMBERS, William. A dissertation on Oriental gardening. [With] an explanatory discourse by Tan Chet-qua. 2d ed. 1773.

MARATTI, G. F. Plantarum Romuleæ et Sâturniæ in agro romano existentium specificas notas describit inventor. 1772.

RENAULT, P. A. Flore du departement de l'Orne, ouvrage élémentaire de botanique, composé de la réunion des systèmes de Tournefort, de Linné et de Jussieu. [1804].

Höss, Franz. Monographie der schwarzföhre, Pinus austriaca, in botanischer und forstlicher beziehung. 1831.

ZAWADZKI, Alexander. Flora der stadt Lemberg. 1836.

MALY, J. K. Enumeratio plantarum phanerogamicarum imperii austriaci universi. 2 teile. 1848.

M'LEOD, John. Voyage of His Majesty's ship Alceste to China, Corea, and the island of Lewchew with an account of her shipwreck. 3d ed. 1820.

GMELIN, K. C. Hortus magni ducis Badensis Carlsruhanus. 1811.

ROSCOE, William. An address delivered before the Botanic gardens in Liverpool. 1802.

MOTT, F. T. Flora odorata. 1843.

MAKINO, Tomitarô. A manual of the flora of Nippon. 1927.

STAPF, Otto. Index londinensis. Vol. 2, 3. 1930.

WILSON, E. H. *Aristocrats of the trees*. 1930.

The original drawings by Mr. C. E. Faxon for the revised edition of Professor Sargent's *Manual of the Trees of North America* have been arranged and suitably bound.

Through the courtesy of its author, Alfred Carl HOTTES, the Library has received "The Gardener's Pronouncing Dictionary," compiled for *Better Homes & Gardens*, 1930.

The names used are principally those in "Standardized Plant Names." The "Manual of Cultivated Trees and Shrubs," by Alfred Rehder, and the "Manual of Cultivated Plants," by L. H. Bailey have been frequently consulted, as has T. S. Lindsay's "Plant Names," and English books which may not be available to American readers.

The botanical names are followed by a clear indication of pronunciation, the common name and a short description of the plant. The list also includes references under the common names and explanations of descriptive terms. Two plates show types of leaves, of flowers, and of fruits.

A book of 88 pages, in paper cover, this little Dictionary meets a long felt need and is bound to prove useful in the questions so perplexing to the student and to the amateur flower lover, the pronunciation of plant names.

From the AMERICAN SOCIETY OF MECHANICAL ENGINEERS, has come their publication "A Bibliography on Woods of the World, exclusive of the Temperate region of North America, and with emphasis on tropical woods," 1928.

It is printed in clear type and consists of 77 pages double column. The entries are numbered from 1 to 1530 and are arranged under the headings General, Tropical America, Europe, Asia and Oceania, Africa. A full subject index ends the volume.

The work was undertaken on the recommendation of the Wood Industries Division of the American Society of Mechanical Engineers in cooperation with the Tropical Plant Research Foundation, Washington, D. C. to investigate the possibilities of applying tropical woods to the wood industries in this country, Professor Samuel J. Record's "Bibliography of the Woods of the World with Emphasis on Tropical Woods" forming the starting point. "The references cover tropical forestry, lumbering, marketing, wood uses, and characteristics, as well as botanical information of an extensive nature on the woods of the world."

Due to our rapidly disappearing forests, the study of the world's forest trees becomes a crying necessity, and a bibliography so complete is a valuable aid in its pursuit.

Mr. F. M. SALVOZA of the School of Forestry, University of the Philippines, has presented to the Library his "Monograph of the Genus *Rhizophora*, an investigation carried out at the Arnold Arboretum, and submitted as a thesis in partial fulfilment of the requirements for the